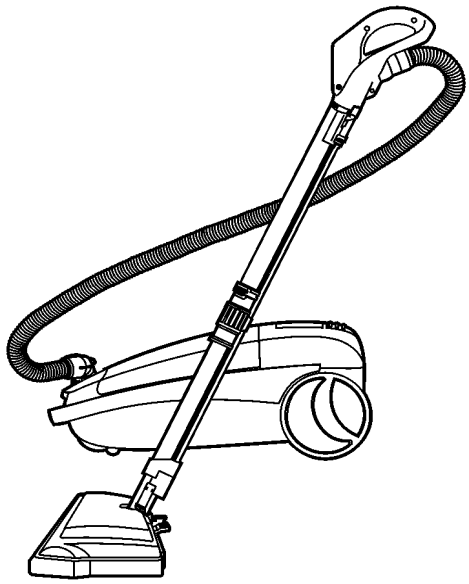
Order Number MAC0702001CE
E4

Service Manual

Vacuum Cleaner

MC-CG973-00



Model	MC-CG973-00
Power Source	AC 120V (60 Hz)
Power Consumption	12.0 Amps
Cord Length	24 Ft.
Headlight	Yes
Tools-On-Board	Yes
Weight	30.0 lbs.

Specifications are subject to change without notice for further improvement.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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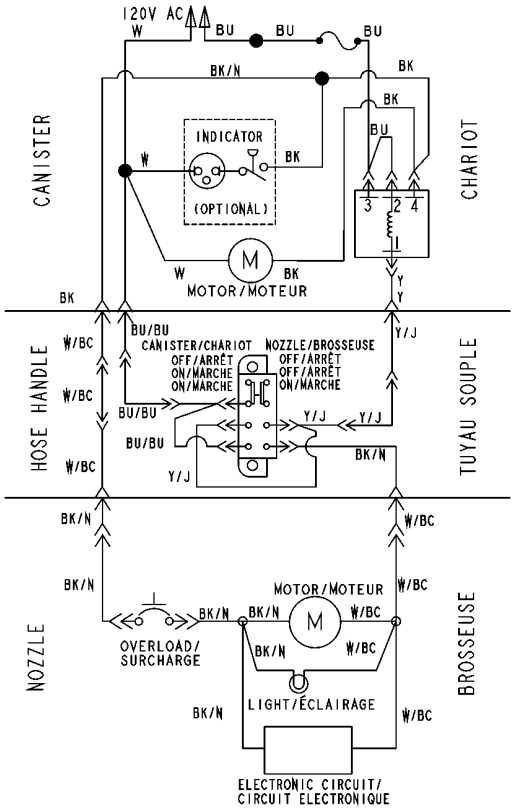
1 WIRING DIAGRAM

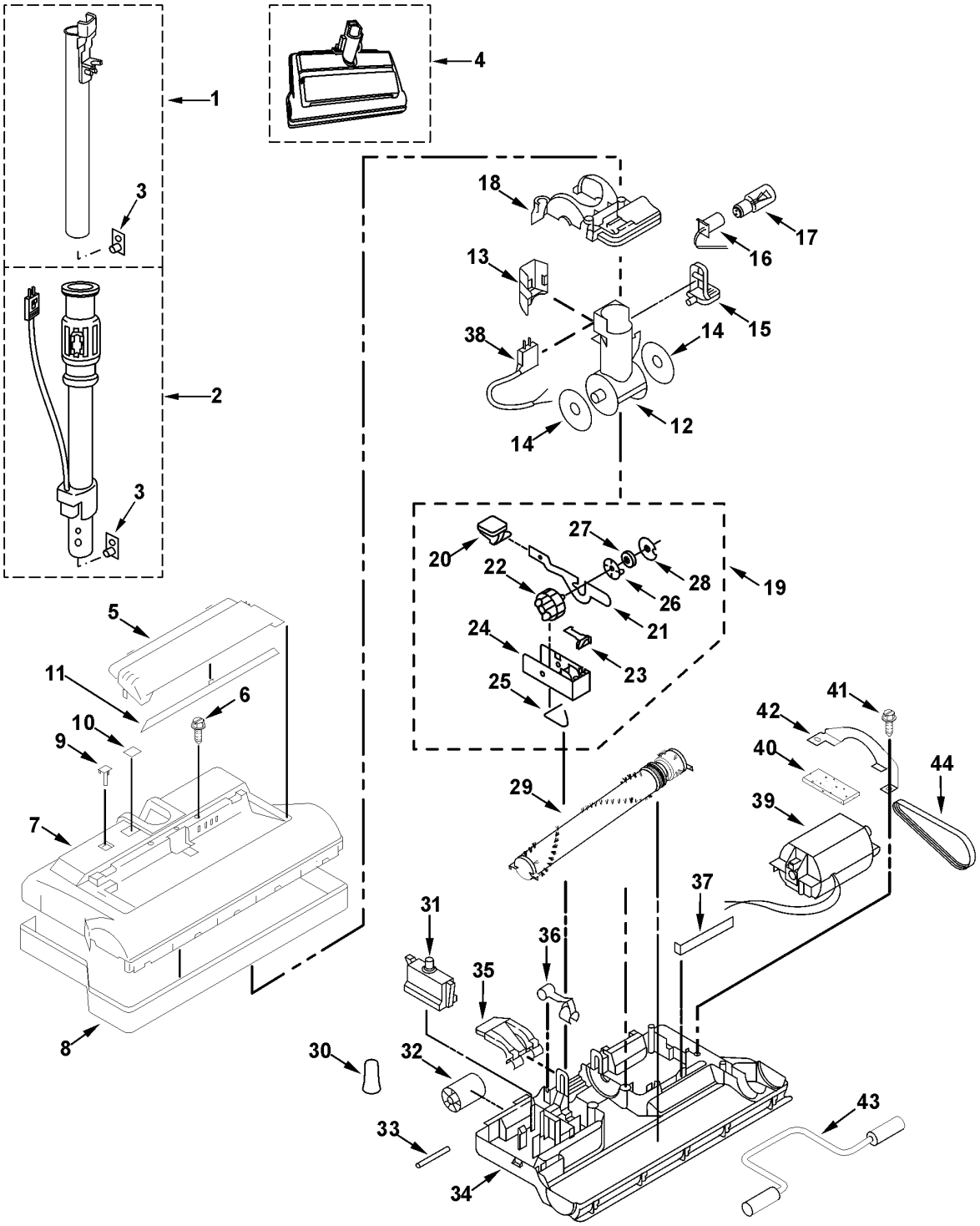
1.1. Wiring Schematic



2 EXPLODED VIEW AND PARTS LIST

2.1. Power Nozzle

2.1.1. Exploded View

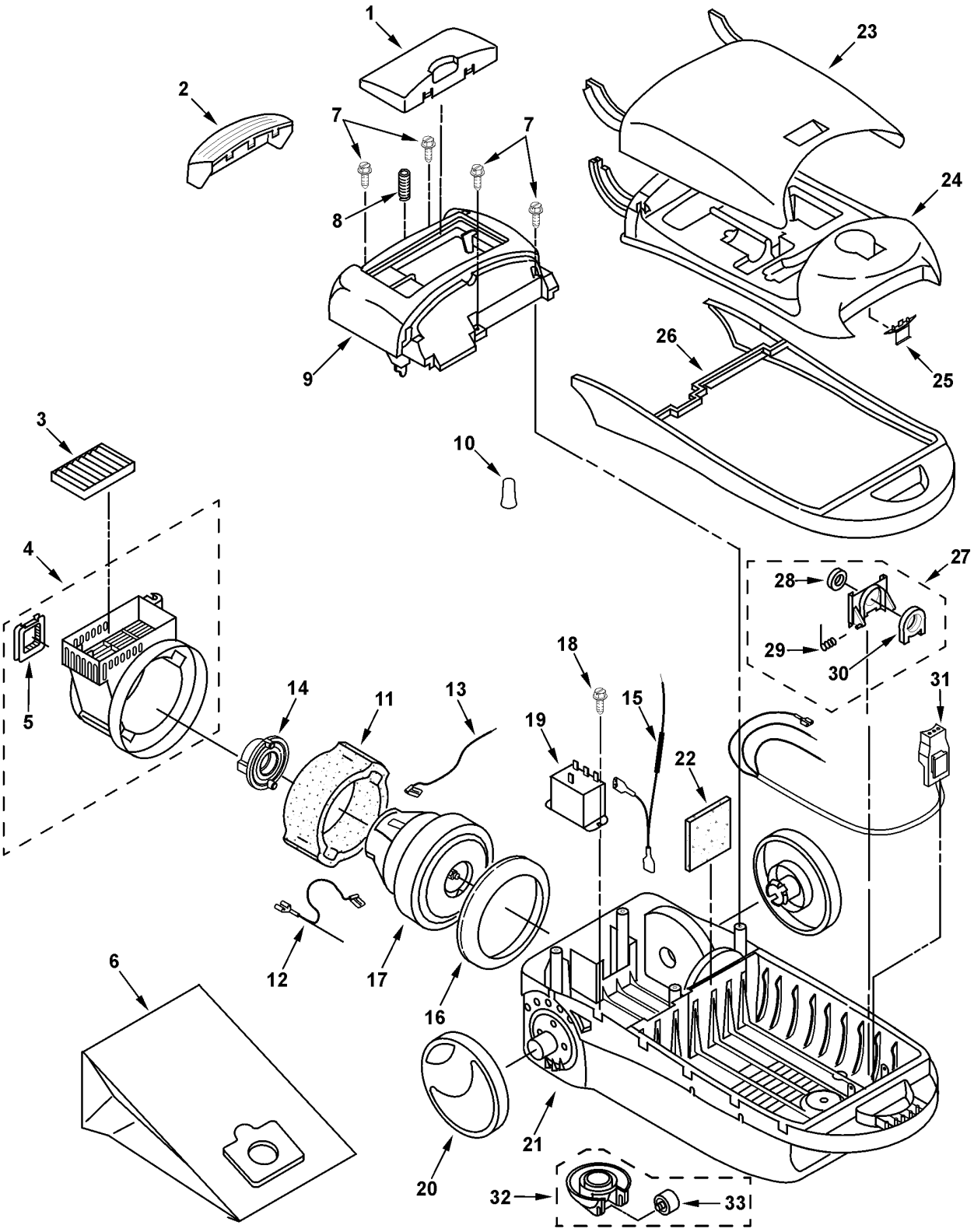


2.1.2. Parts List (Power Nozzle)

Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC97PAENZV06	Upper Wand	1	
2	AC99PAKSZV06	Lower Wand	1	
3	AMC725-419	Spring Wand Lock Assembly	1	Shipped 10 per package
4	AC50XDDJZC04	Power Nozzle Assembly	1	
5	AC24HDDJZCU4	Panel Light	1	
6	AMC681-550	Screw	1	
7	AC02RBPJZCU4	Nozzle Top	1	
8	AC10AAXAZV06	Furniture Guard (Bumper)	1	
9	AC13DAUJZVU6	Button Extension	1	
10	AC21HGJZ000	Lens - Height Adjust Assembly	1	
11	AMC747-286	Lens - Panel Light	1	
12	AMC415-3196	Swivel	1	
13	AC13DATYZV06	Cover Plug Housing	1	
14	AMC742-019	Swivel Seal	1	
15	AC47AATYZV06	Foot Pedal	1	
16	AC93HAXEZ000	Bulb Socket	1	
17	AC28GADFZ00	Bulb	1	
18	AC25QRDZV06	Swivel Cap	1	
19	AC83MAKSZV06	Indicator Block Assembly	1	
20	AC48AMGZV06	Pad - Foot Pedal	1	
21	AMC747-287	Indicator Lever	1	
22	AMC747-291	Indicator Cam	1	
23	AMC742-016	Ratchet Catch	1	
24	AMC742-015	Indicator Block	1	
25	AMC725-775	Spring Assist	1	
26	AMC722-955	Catch Indexing	1	
27	AMC725-635	Washer	1	
28	AMC722-909	Washer	1	
29	AC84RCHJZ000	Agitator Assembly	1	
30	AC44DCYKZ000	Wire Crimp	1	Shipped 10 per package
31	AC97KAXEZV04	Overload Protector	1	
32	AC01CAKZZV06	Roller	1	
33	AMC742-006	Rear Axle	1	
34	AC03RAXAZU01	Base	1	
35	AC47AGJZV06	Handle Release	1	
36	AMC742-013	Lifter	1	
37	AMC742-002	Motor Adjustment Spring	1	
38	AC64EAWBZV06	Cord & Plug	1	
39	AC90FCAMZ000	Motor	1	
40	AC747156	Motor Gasket	1	
41	AMC681-297	Screw	1	
42	AMC705-093	Motor Bridge	1	
43	AMC744-029	Front Axle	1	
44	AC28SAXAZ000	Belt	1	

2.2. Canister

2.2.1. Exploded View

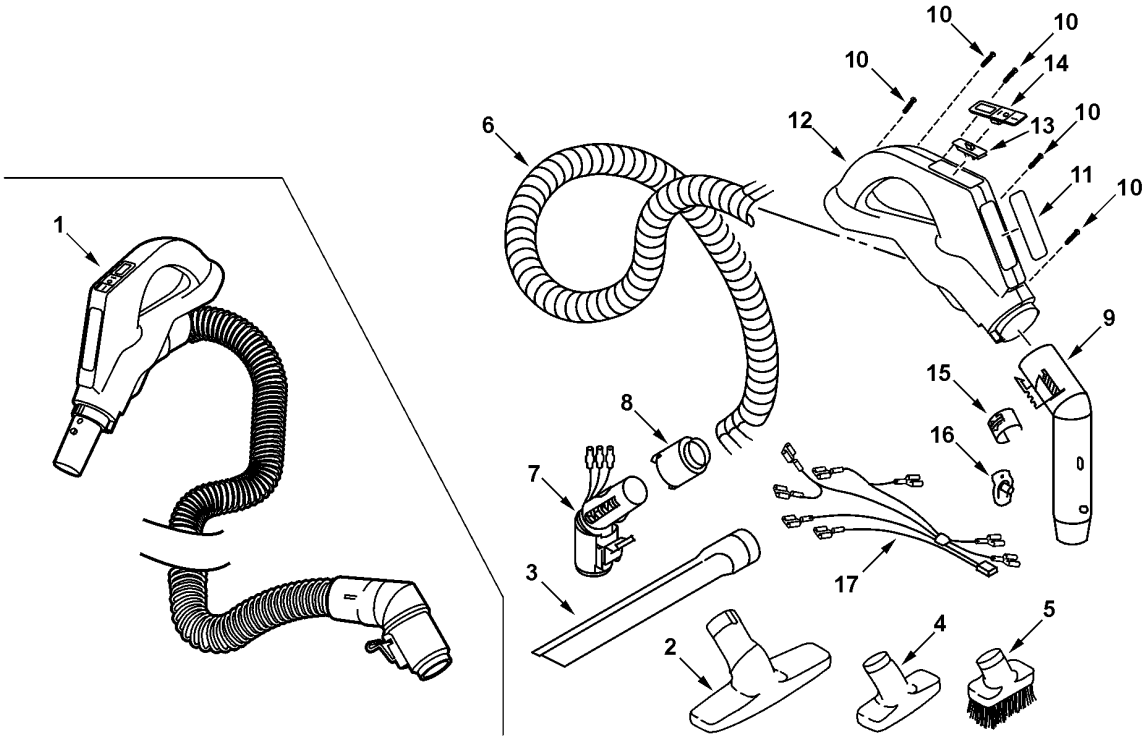


2.2.2. Parts List

Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC41KBAKZCU4	Filter Cover	1	
2	AC46NAKTZV06	Cord Rewind Buttom	1	
3	AC38KBRMZ000	HEPA Filter	1	
4	AC93FAUXZ000	Motor Enclosure	1	
5	AC03FAKTZ000	Motor Rubber Support	1	
6	AC16KGFZ00	Dust Bag	1	
7	AMC414-8999	Screw	1	SHIPPED 10 PER PACKAGE
8	AMC744-258	Spring	1	
9	AC90QCZSZC04	Canopy Cover	1	
10	AC44DCYKZ000	Wire Crimp	1	SHIPPED 10 PER PACKAGE
11	AC99GAKTZ000	Noise Suppressor	1	
12	AC85GCYDZ000	Lead Wire - Black	1	
13	AC43GAKTZ000	Lead Wire - B	1	
14	AC03FAXAZ000	Motor Rear Support	1	
15	AC81GAWAZ000	Lead Wire Assembly	1	
16	AC02FCUNZ000	Motor Front Support	1	
17	AC92FCJNZ000	Motor	1	
18	AMC-XTN4+14BFY	Screw	1	SHIPPED 10 PER PACKAGE
19	AC30EAWPZ000	Relay	1	
20	AC99CAKTZV07	Wheel	1	
21	AC03ACZSZV07	Lower Body	1	
22	AC37KAKTZ000	Secondary Filter	1	
23	AC74PDDJZCU4	Tool Cover	1	
24	AC60KCRXZCU4	Hood	1	
25	AC01DAKTZV07	Buckle	1	
26	AC31AAXAZV06	Furniture Guard	1	
27	AC11KAKTZR0K	Bag Supporter Assembly	1	
28	AC64HAKTZ000	Inlet (Bag) Packing	1	
29	AMC706-024	Spring, Bag Mount Assembly	1	
30	AC03LAKTZ000	Bag Mount Gasket	1	
31	AC90EDBXZ006	Receptacle	1	
32	AC93CAKTZV07	Castor Roller Unit	1	
33	AC95CAKTZV06	Castor Wheel	1	

2.3. Hose & Attachments

2.3.1. Exploded View

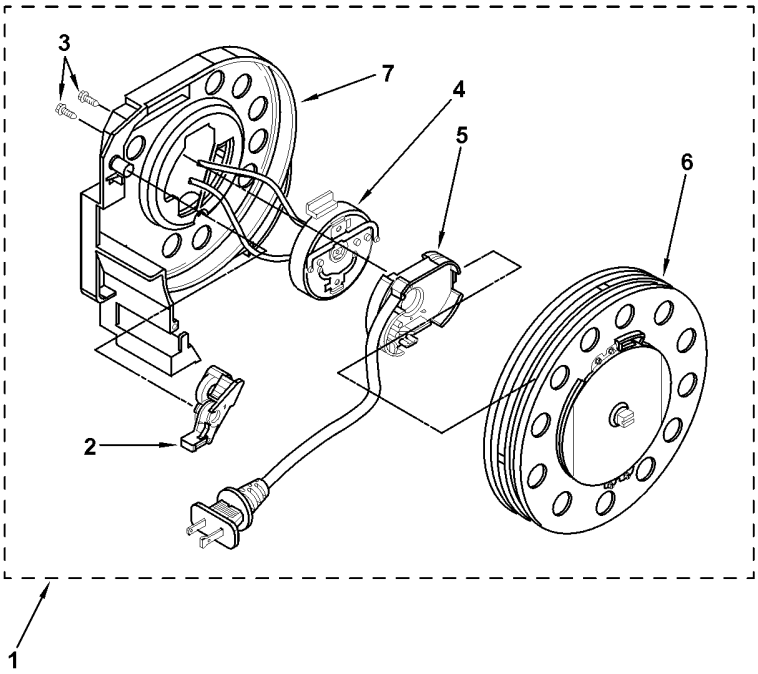


2.3.2. Parts List

Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC94PCHKZV06	HOSE ASSEMBLY	1	
2	AC96RAKZZV06	FLOOR BRUSH	1	
3	AC60RAKZZV06	CREVICE TOOL	1	
4	AC86RAKZZV06	FABRIC BRUSH	1	
5	AC88RAKZZV06	DUSTING BRUSH	1	
6	AC05PSUZV06	HOSE ASSY	1	
7	AC92PCAZZV06	SWIVEL ASSY	1	
8	AC22PAFZZV06	HOSE ADAPTER	1	
9	AC98PSTZV06	CURVED PIPE INIT	1	
10	AXTN4+12BFY	SCREW(HANDLE CAP) ASSY. COMPL	5	SHIPPED 10 PER PACKAGE
11	AC31TMBVZ0U0Z	ORNAMENTAL PLATE	1	
12	AC93BSTZV06	HANDLE ASSEMBLY	1	
13	AC09ESTZ000	SLIDE SWITCH	1	
14	AC99EAVKZVU7	SLIDE KNOB DECO	1	
15	AC54PAPAZV06	CONTROL SUCTION	1	
16	AMC415-2093	SPRING WAND LOCK ASSY COMP.	1	
17	AC37GSTZV06	WIRE HARNESS	1	

2.4. Cord Reel

2.4.1. Exploded View

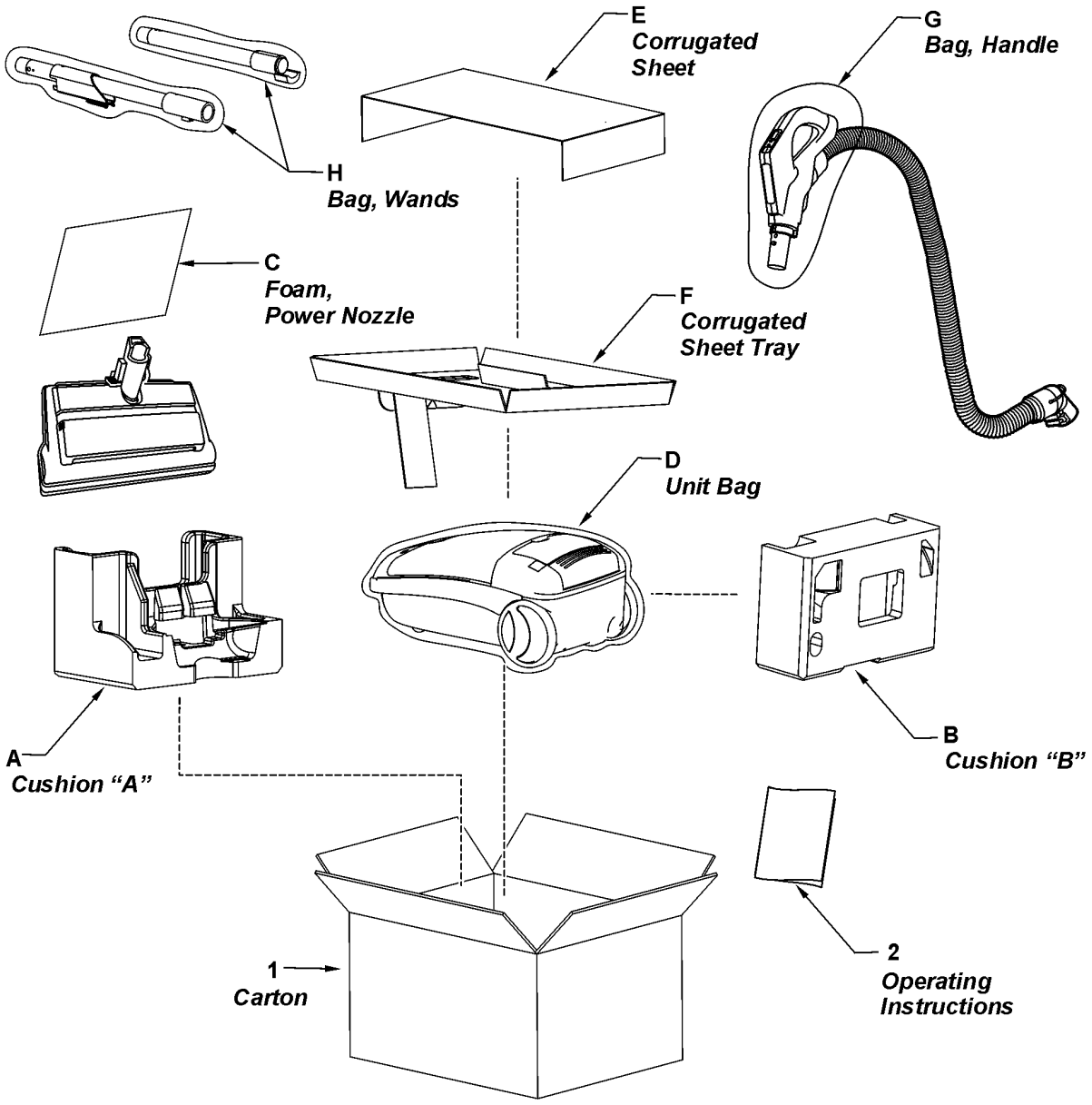


2.4.2. Parts List

Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC99NCVAZV06	CORD REEL	1	
2	AC94NAKTZV06	BRAKE LEVER	1	
3	AXTN4+16BFY	SCREW	2	SHIPPED 10 PER PACKAGE
4	AC19NAVAZ000	CONTACT BASE	1	
5	AC98NCVAZ000	CONTACT DISC ASSY COMPLETE	1	
6	AC01NCUHZ000	CORD REEL HUB ASSY COMPLETE	1	
7	AC04ACUHZV07	CORD REEL BRACKET	1	

2.5. Packing Materials

2.5.1. Exploded View



2.5.2. Parts List

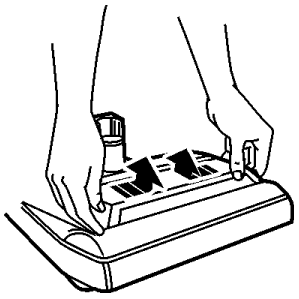
Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC61ZDDJZ000	PACKAGING ASSEMBLY	1	INCLUDES ITEMS A - H
2	AC01ZDDJZ000	OPERATING INSTRUCTIONS	1	

3 SERVICE PROCEDURES - POWER NOZZLE

3.1. BULB

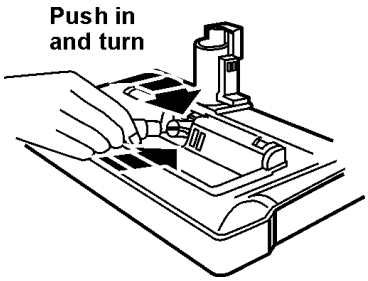
3.1.1. Bulb Removal

1. Remove Power Nozzle cover (see Belt Removal).
2. Push in and turn bulb counterclockwise, then pull out to remove.



3.1.2. Bulb Replacement

1. Push in and turn bulb clockwise, to replace. Bulb must not be higher than 15 Watts(130 Volts).

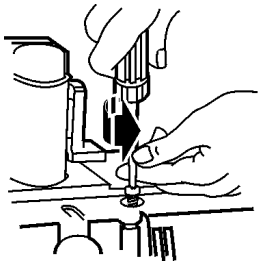


2. Reinstall Power Nozzle cover (see Belt Replacement)..

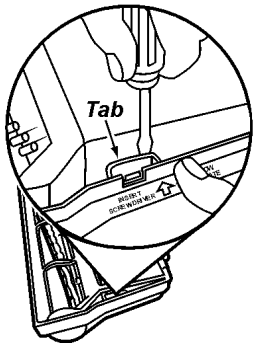
3.2. BELT

3.2.1. Belt Removal

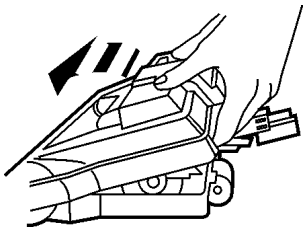
1. Remove light cover and light bulb as shown in “Bulb Removal.”
2. Unscrew the two (2) Power Nozzle cover screws.



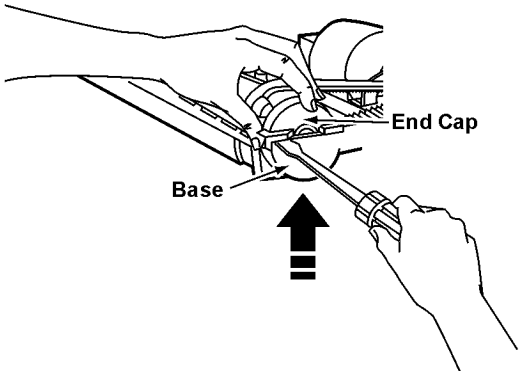
3. Turn Power Nozzle upside down.
4. To remove cover, insert screwdriver at cover tabs on both sides and twist to release tabs.



5. Turn Power Nozzle right side up.
6. Press handle release pedal and lower the swivel.
7. Tilt cover forward from back until front snaps free.



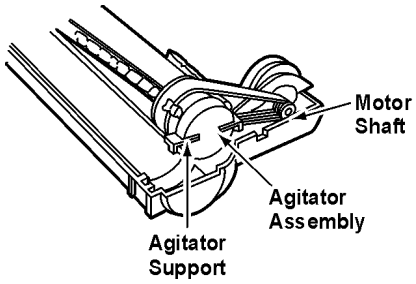
8. Carefully insert and twist screwdriver at each brush support to free brush from base.



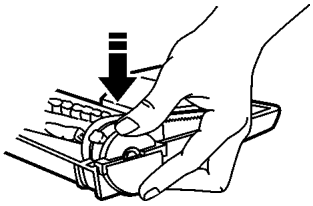
9. Remove worn belt.

3.2.2. Belt Replacement

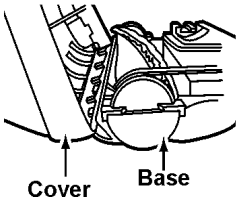
1. Install new belt in belt groove then over the motor shaft.



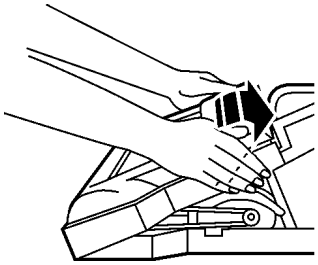
2. Place agitator assembly back into Power Nozzle.



3. Line up front of cover and base.
4. Rest cover on front edge of base as shown.



5. Rotate cover back.



6. Press cover firmly until side and rear tabs snap into place.
7. Replace two (2) cover screws.

3.3. POWER NOZZLE MOTOR

3.3.1. Specifications

1. 120V., 60Hz.
2. Amps 2.0/2.7 (max.) at 18,000/14,550 R.P.M.
3. Watts 225/298 (max.) at 18,000/14,550 R.P.M.
4. Torque 55/100 Nm at 18,000/14,550 R.P.M.

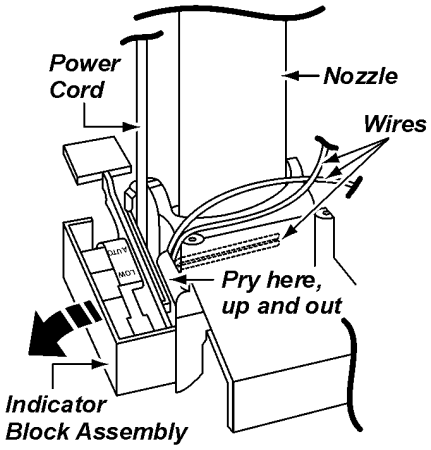
3.3.2. Motor Replacement

1. Remove Power Nozzle cover, nozzle cover and agitator assembly (see BELT REMOVAL.
2. Remove two (2) motor bridge screws. Lift out bridge and motor.

   NOTE: Observe routing of motor wires and all other wiring before removing motor.

3. Hook a finger under the center of the overload protector and lift to free it from the retaining tabs. Remove the overload protector wire terminals. Check continuity by depressing the button completely. When the button is released there should be continuity between the two poles when checked. If all components and items in the troubleshooting guide have been checked and the overload protector continues to trip, it should be replaced.

4. Insert a flat screwdriver blade between the indicator block assembly and the plastic retainer for the four (4) wires. Pry up and out to free the indicator block assembly from the retaining tabs.

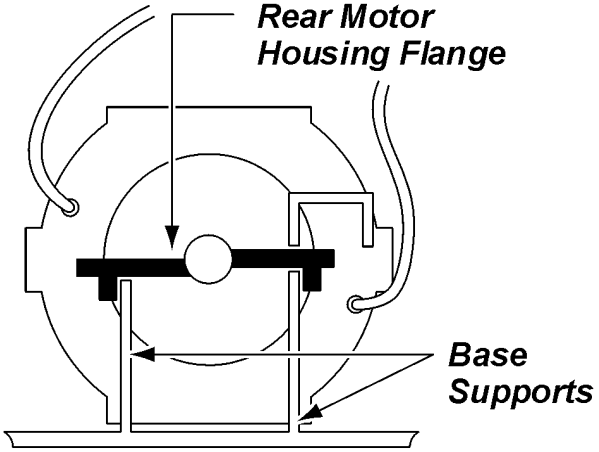


5. Unscrew wire nuts to free motor lead wires.

6. Install new motor. Assure motor is fully seated on all four (4) front and rear base supports. Rear motor housing flange should be in slot of base support.

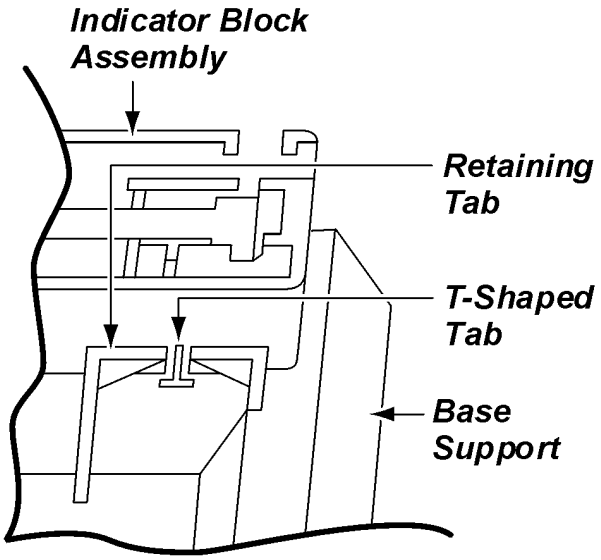
CAUTION: Do not pinch wire.

7. Install motor bridge and secure with two (2) screws.



8. Reroute all wiring per original layout utilizing wire retainers provided, and proper placement of wires to prevent pinching of wires and interference when reinstalling the indicator block assembly. Connect wires and apply wire nuts, (reference WIRING DIAGRAM).

9. Install indicator block assembly. Holding the assembly at a slight angle, insert the edge of the part behind the retaining tabs (use T-shaped tab on assembly to align in slot of retaining tab). With fingers lifting base off the floor (to free front axle) use both thumbs to push the indicator block assembly down until it snaps in place.



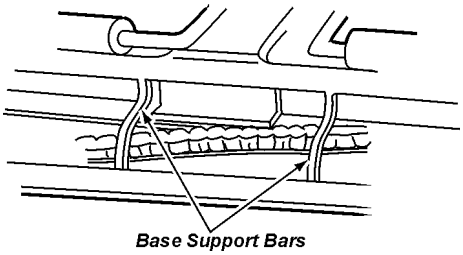
10. Install the overload protector by snapping into position between the two retaining tabs and with one end pushed up against the indicator block assembly.

11. Replace remaining parts (see BELT REMOVAL).

3.4. AGITATOR ASSEMBLY

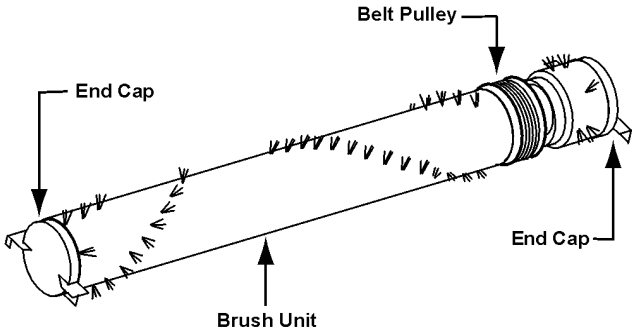
3.4.1. Agitator Checking

1. When brushes are worn to the level of the base support bars, replace the agitator.



3.4.2. Agitator Assembly Replacement

1. Remove Power Nozzle cover, agitator cover, belt and agitator assembly (see BELT REMOVAL).
2. Reassemble belt, agitator assembly, Power Nozzle cover, light bulb and light cover (see BELT REPLACEMENT).

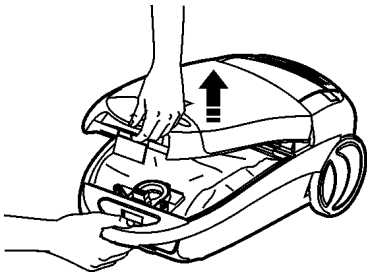


4 SERVICE PROCEDURES - CANISTER

4.1. HOOD

4.1.1. Removal

1. Lift up on the hood release as the hood is raised.



2. With the hood all the way up, force it until the two ends pop out of place.

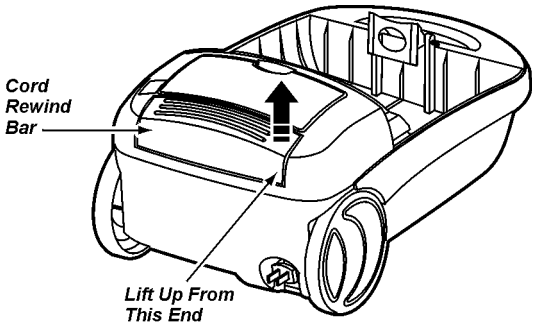
4.1.2. Replacement

1. Place each end of the hood into the slot while holding upright in the position it was removed.
2. Work both ends into the openings and close.

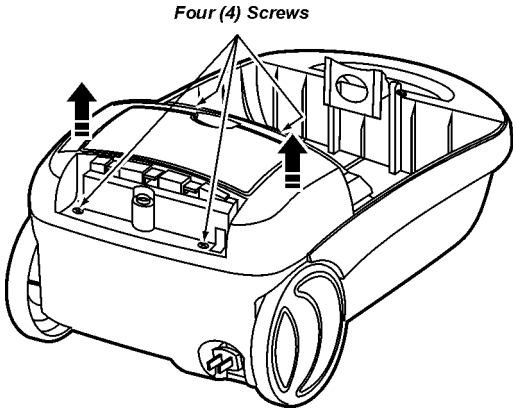
4.2. CANOPY COVER

4.2.1. Removal

1. Remove the cord rewind bar by snapping it off from rear to front.



2. The canopy cover has a screw on each of the four (4) corners sercuring it in place. Use a screwdriver to remove each screw.



3. Lift the canopy cover off of the canister base.
4. Secure the power cord to prevent retracting as you are servicing the motor.

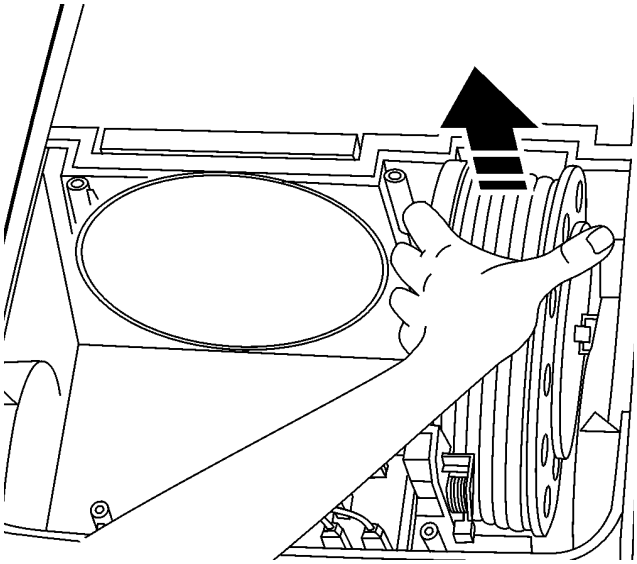
4.2.2. Replacement

1. Set the canopy cover in position and secure the canopy with (4) screw holes.
2. Snap the cord rewind bar into place on the canopy cover.

4.3. CORD REEL

4.3.1. Removal

1. Remove hood (see HOOD Removal).
2. Remove canopy cover (see CANOPY COVER Removal).
3. Disconnect both cord reel wires.
4. Remove the cord cover cap from the base.
5. Lift the cord reel straight up to remove. Do this by prying it out of the retainers.



4.3.2. Replacement

1. Connect both wire cord reel wires to the new cord reel assembly.
2. Route the plug through the hole in the canister base and snap the cord cover cap in place.
3. Position the slots in the cord reel brackets into place over the retainers in the base.
4. Route the cord reel wire into the provided slot to prevent pinching
5. Replace canopy cover and brake pedal (see Canopy Cover Replacement.
6. Replace hood (see Hood Replacement).

4.4. CANISTER MOTOR

4.4.1. Removal

1. Remove hood (see HOOD Removal).
2. Remove canopy cover (see CANOPY COVER Removal).
3. Remove the motor enclosure from the motor.

4. Remove white wire and black wire terminal from the motor.

4.4.2. Replacement

1. Attach white wire and black wire teminals to the new motor.
2. Replace the enclosure on the motor.
3. Place new motor in canister base
4. Replace canopy cover and brake pedal (see Canopy Cover Replacement.
5. Replace hood (see Hood Replacement).